

SR800



marantz

model SR800

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

Marantz, S.A.
Avenue Leopold III, 2
7120 Peronnes-Lez-Binche
Belgium

Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Marantz GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

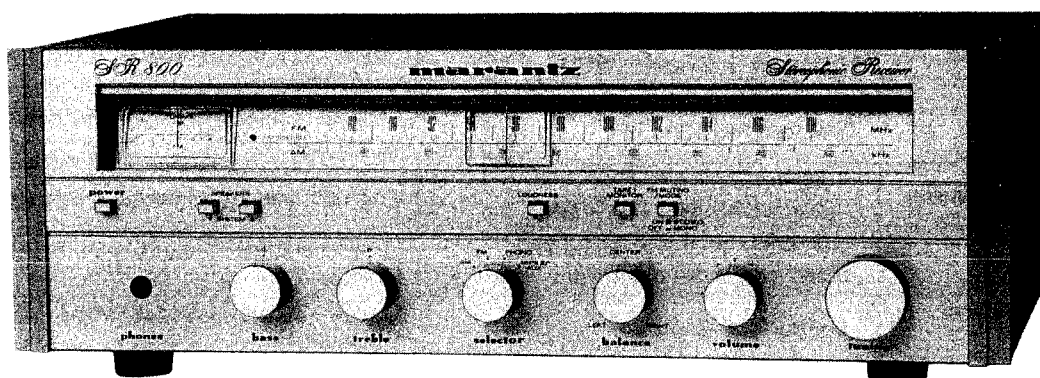
All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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We sound better.

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MODEL SR 800 STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR 800 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model SR 800 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tuner mounted on P.W. Board P100
2. Main Amp/Power Supply
. mounted on P.W. Board P700
3. Volume/Balance mounted on P.W. Board PE00
4. Tone Control mounted on P.W. Board PF00
5. Pushswitch mounted on P.W. Board PS00
6. Headphone Jack mounted on P.W. Board PW00
7. Speaker Terminal mounted on P.W. Board PW50
8. Speaker Switch mounted on P.W. Board PX00
9. Stereo LED mounted on P.W. Board PY00
10. Dial Pointer Lamp mounted on P.W. Board PZ00
11. Tuning Meter Lamp mounted on P.W. Board PZ50

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR 800 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

* A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

3. FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
3.1 FM IF ALIGNMENT					
1	Sweep generator to point (B) through 5pF capacitor	10.7 MHz market at 10.6, 10.7 and 10.8 MHz	Oscilloscope to JV02 (TAPE OUT)	Quiet point on band.	L106 for maximum and symmetric response.
2			Oscilloscope to JV02 (TAPE OUT)		L201 for maximum and symmetric response.
3	Repeat steps 1 and 2.				
3.2 FM RF ALIGNMENT					
1	RF generator to FM antenna terminals (A) through matching network (300 ohms, balanced) Maintain RF level below limit.) (J036)	87.4 MHz	VTVM to L or R channel output (JV02)	87.4 MHz with tuning gang closed.	L105 for maximum output.
2		108.2 MHz		108.2 MHz with tuning gang open.	C114 for maximum output.
3		90 MHz		90 MHz	L101, L103 for maximum output.
4		106 MHz		106 MHz	Ant. RF trimmer for maximum output.
5	Repeat steps 1 to 4.				
6	Check overall response curve and repeat above steps as necessary to obtain maximum sensitivity.				
7	No connection	No signal	—	—	L201 lower core for FM TUNING meter M001 pointer indicated its center.
8	FM generator 1 mV output to FM antenna terminals (A) through matching network (300 ohms, balanced) (J036)	98 MHz	Distortion meter to L or R channel output (JV02)	98 MHz	L201 (primary core upper) for minimum distortion.
9					
3.3 MUTING CIRCUIT ALIGNMENT					
1	RF generator 12.5μV output to FM antenna terminals (A) through matching network (300 ohms, balanced) (J036)	98 MHz	VTVM to R or L channel output (JV02)	98 MHz	R207 for 12.5μV threshold level. (During the adjustment turn the FM MUTING push-switch "ON").



3.4 MULTIPLEX ALIGNMENT PROCEDURES

(Selector switch in the "FM" and STEREO/MUTING position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM antenna terminals through matching network (300 ohms, balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%) (J036)	No modulation	Frequency counter to point (J301)	98 MHz	R304 so that frequency counter may precisely read 19 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel output (JV02)		R313 for minimum output and same separation in both channels.
3		Stereo, right (1,000 Hz)	VTVM to left channel output (JV02)		
4	Repeat steps 2 and 3.				

4. AM ALIGNMENT PROCEDURES

(Selector switch in the "MW" or "LW" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
4.1 AM IF ALIGNMENT					
1	Sweep generator to AM sweep input.	450 kHz marker	Oscilloscope to point ③ (JA06)	Quiet point on band.	LA05, LA06 for maximum and symmetric response.
4.2 AM RF ALIGNMENT					
1	RF generator to AM antenna terminals through IHF dummy.	525 kHz	VTVM to L or R channel output (JV02)	520 kHz with tuning gang closed.	LA04 for maximum output.
2		1,630 kHz		1,630 kHz with tuning gang open.	O.S.C. trimmer for maximum output ①.
3		600 kHz		600 kHz	L051 for maximum output.
4		1,400 kHz		1,400 kHz	Ant. trimmer for maximum output ②.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

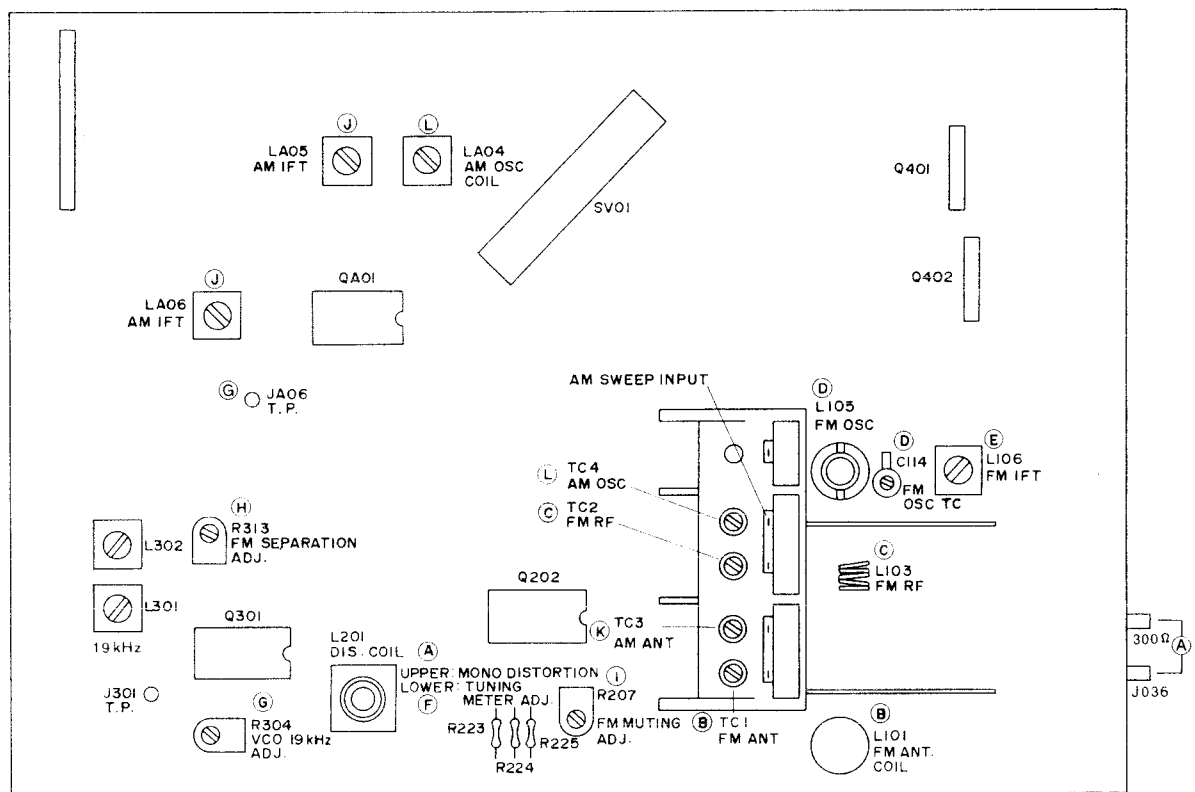


Figure 1. Adjustment Point Locations

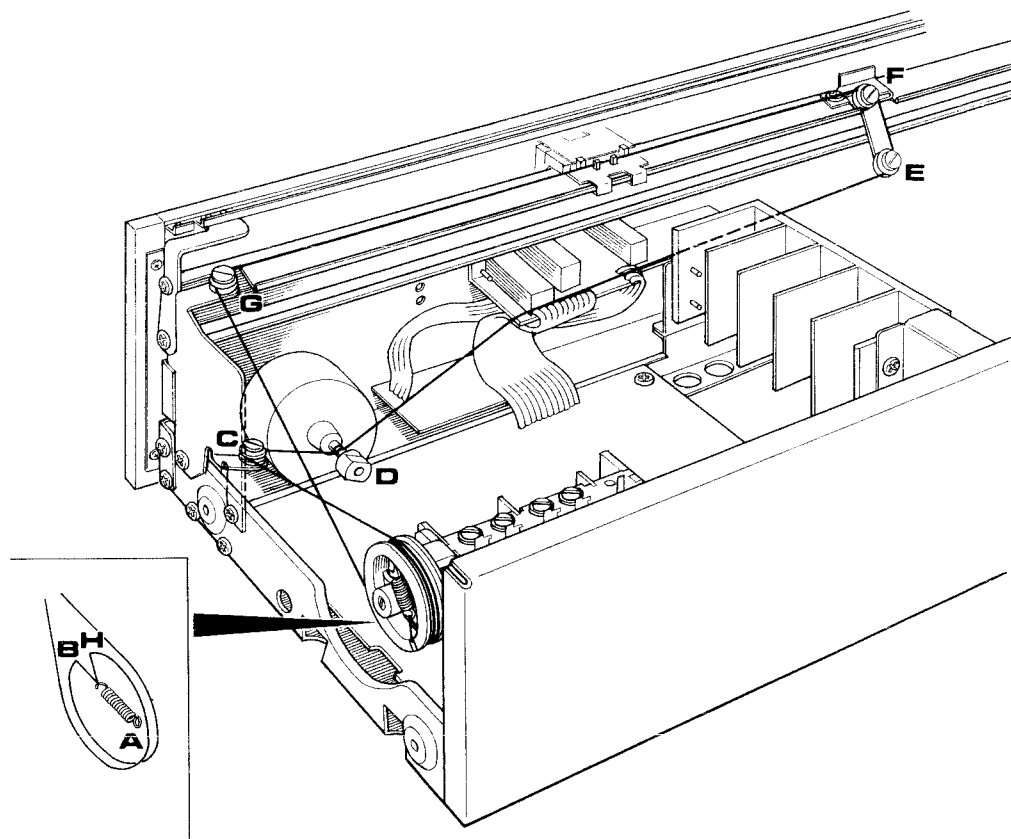


Figure 2. Dial Stringing

5. AUDIO ADJUSTMENT

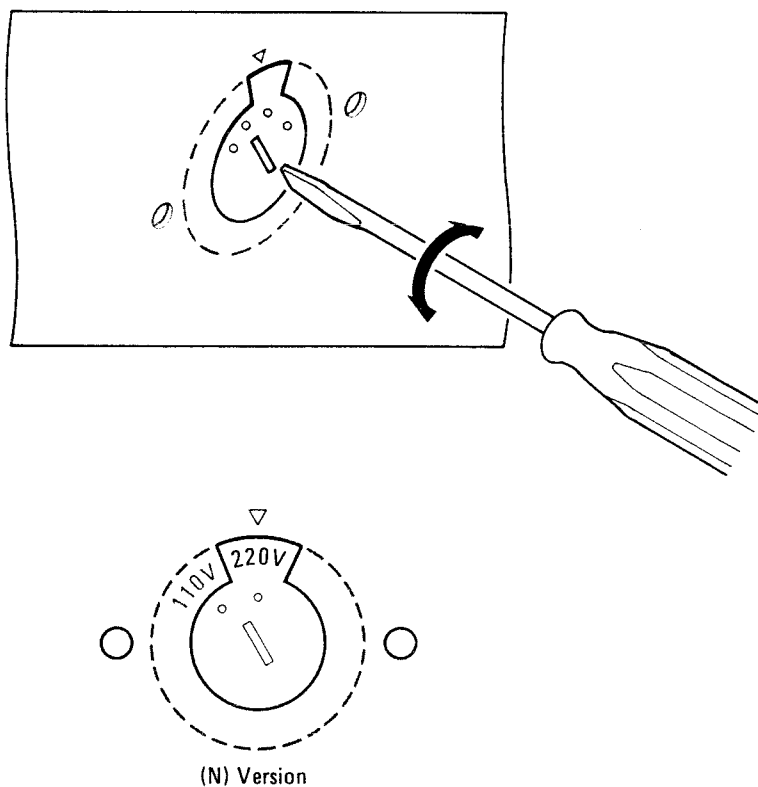
5.1 VOLTAGE ADJUSTMENT

1. Turn on the POWER pushswitch and connect a DC voltmeter across the J837 and J723.
2. Check that DC voltmeter reading is 34 ± 1 V.

6. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.



(Note on safety: The parts marked with Δ are important parts on the safety. Please use the parts having the designated parts numbers without fail.)

FTZ REGULATION

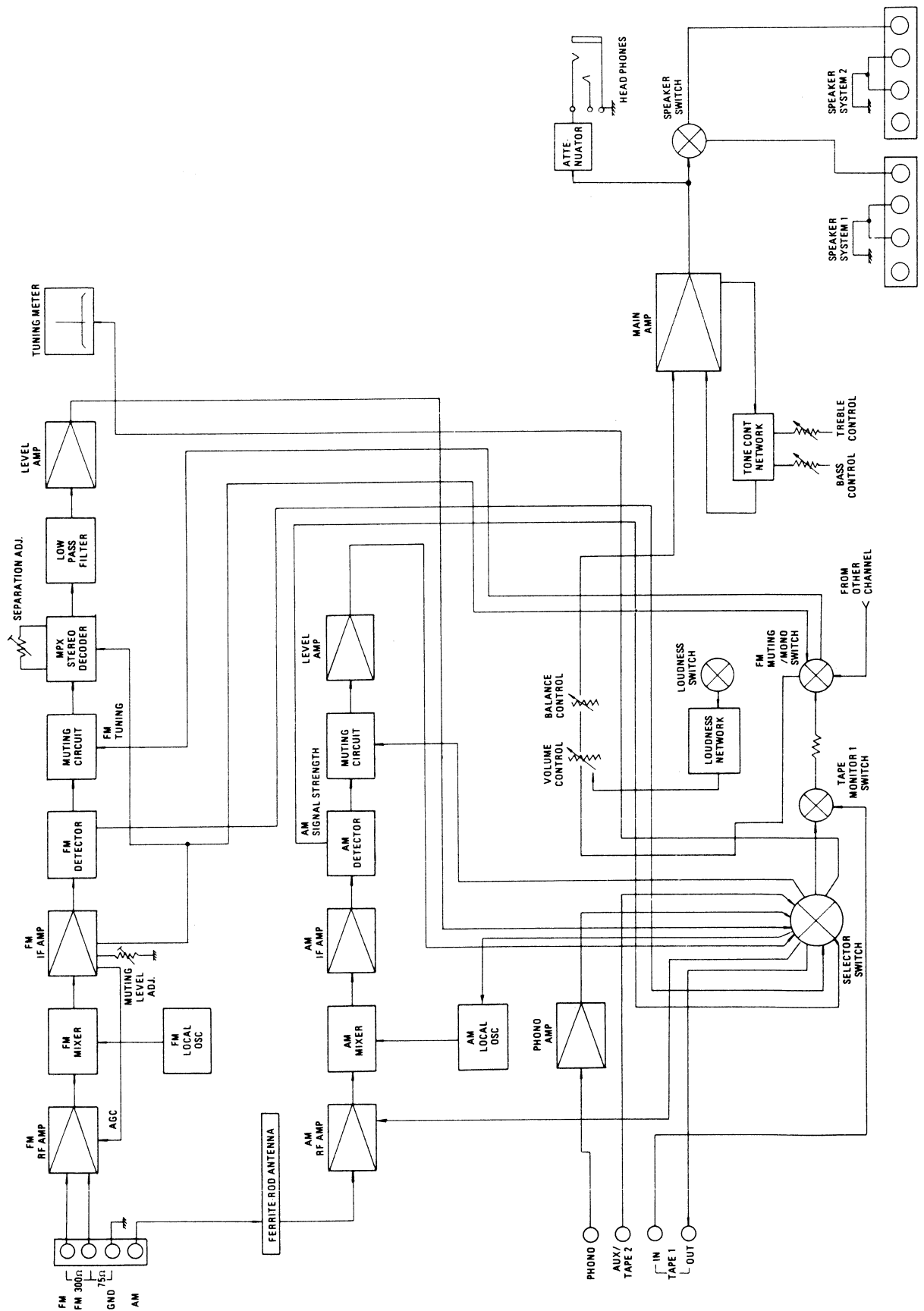
Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

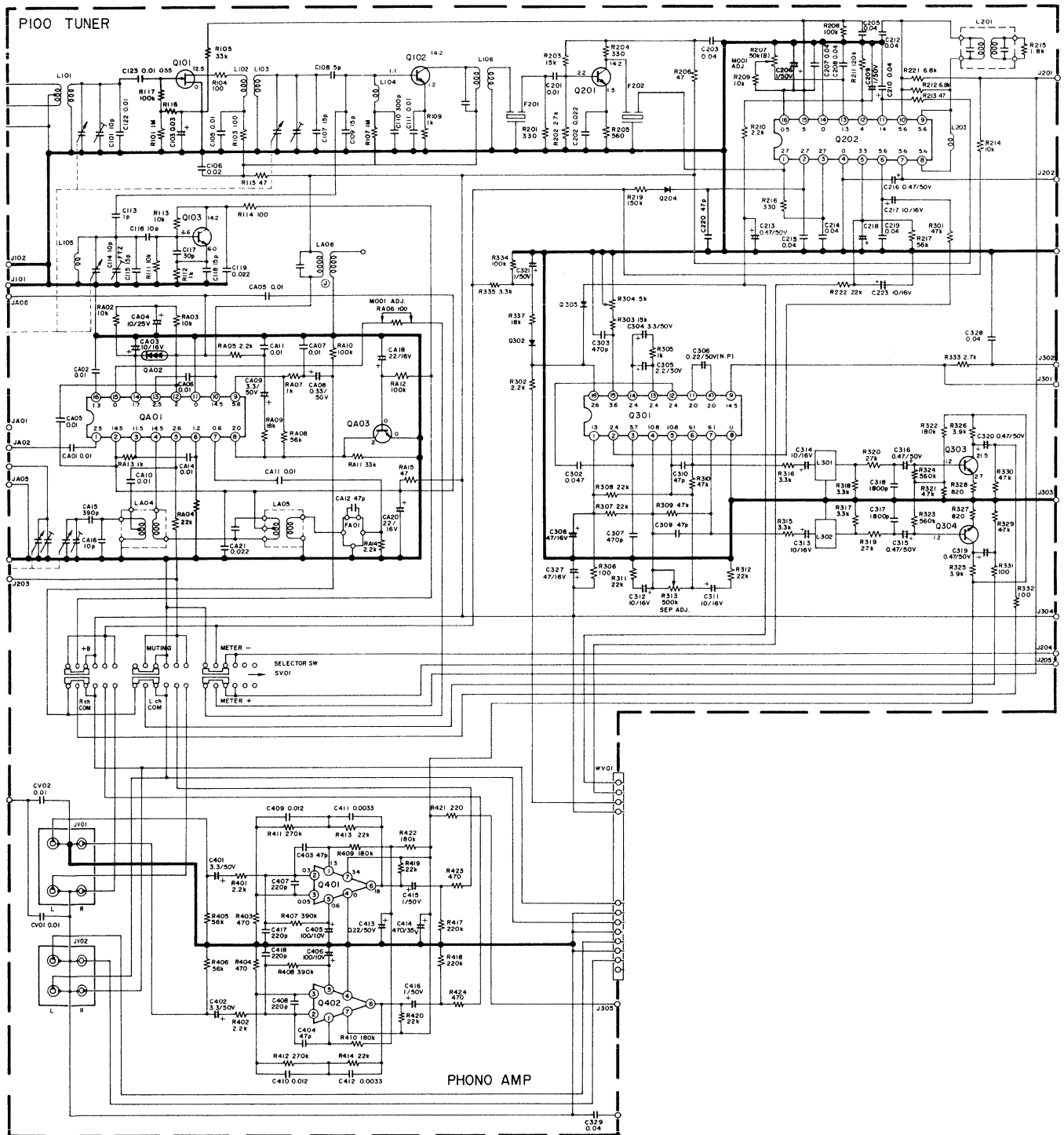
Sollte das Gerät auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorschule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

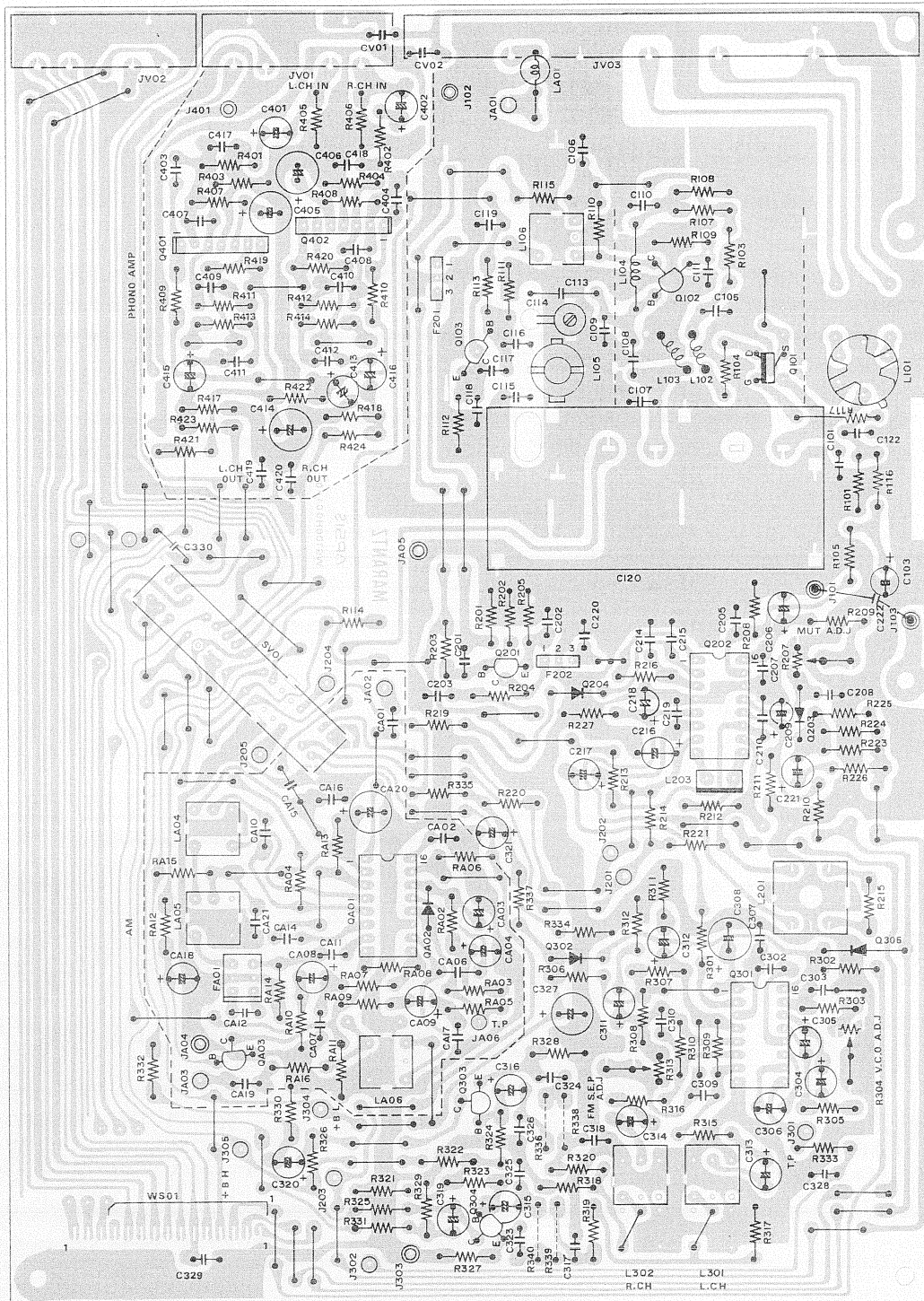
7. DIAGRAMS

7.1 BLOCK DIAGRAM

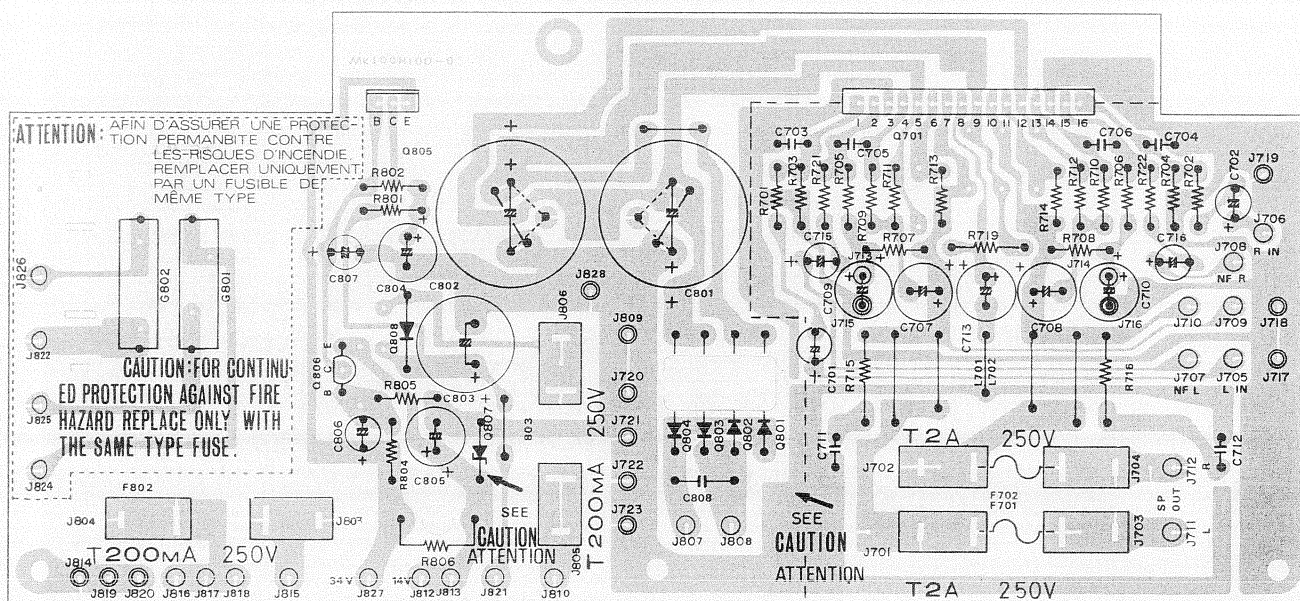
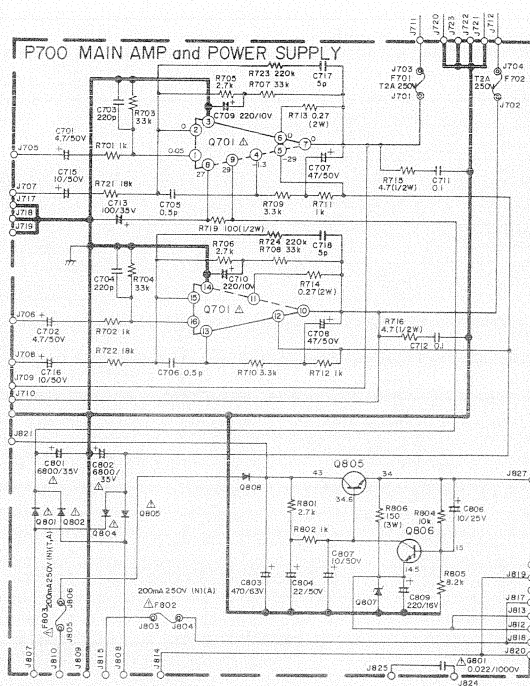


7.2 TUNER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – P100

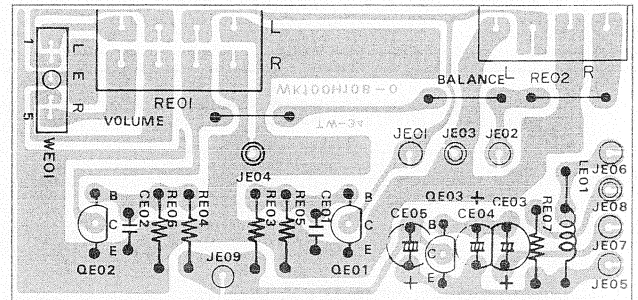
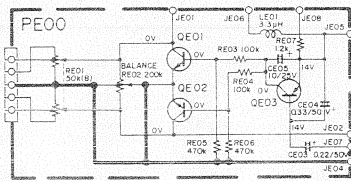




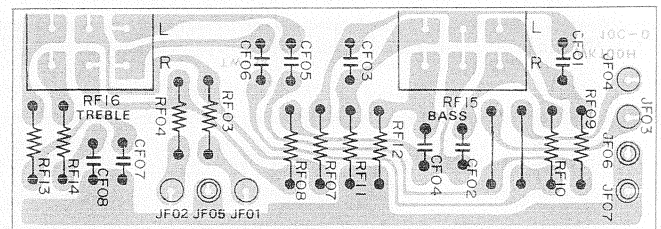
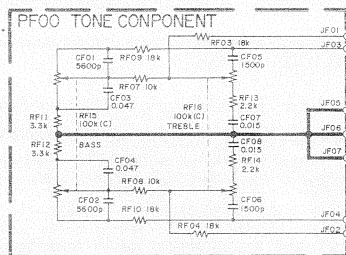
7.3 MAIN AMP/POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – P700



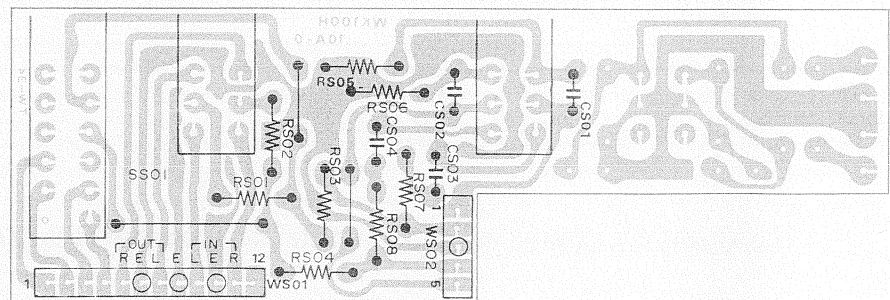
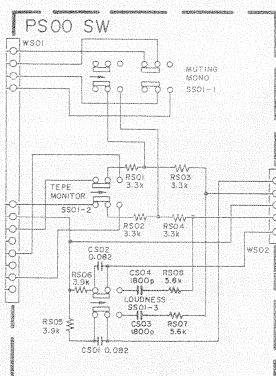
7.4 VOLUME/BALANCE BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PE00



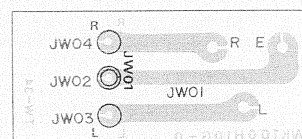
7.5 TONE CONTROL BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PF00



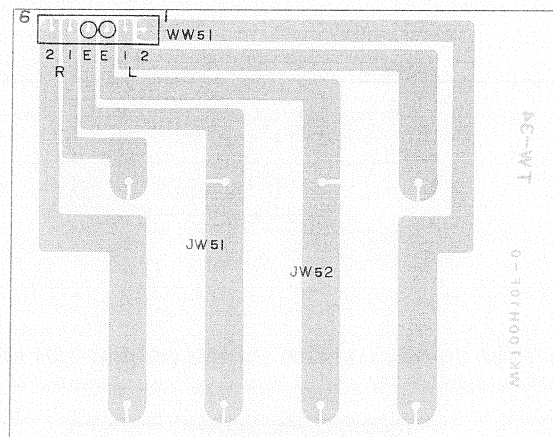
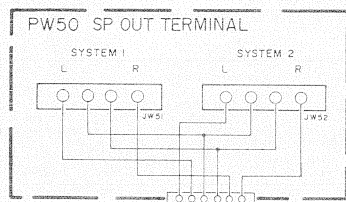
7.6 PUSHSWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PS00



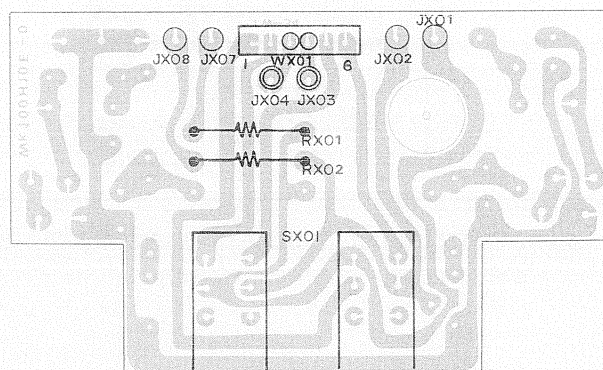
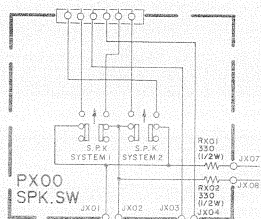
7.7 HEADPHONE JACK BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PW00



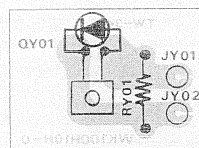
7.8 SPEAKER TERMINAL BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PW50



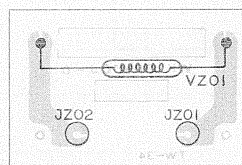
7.9 SPEAKER SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PX00



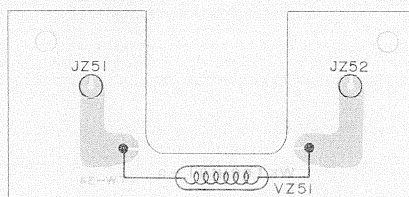
7.10 STEREO LED BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PY00



7.11 DIAL POINTER LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PZ00

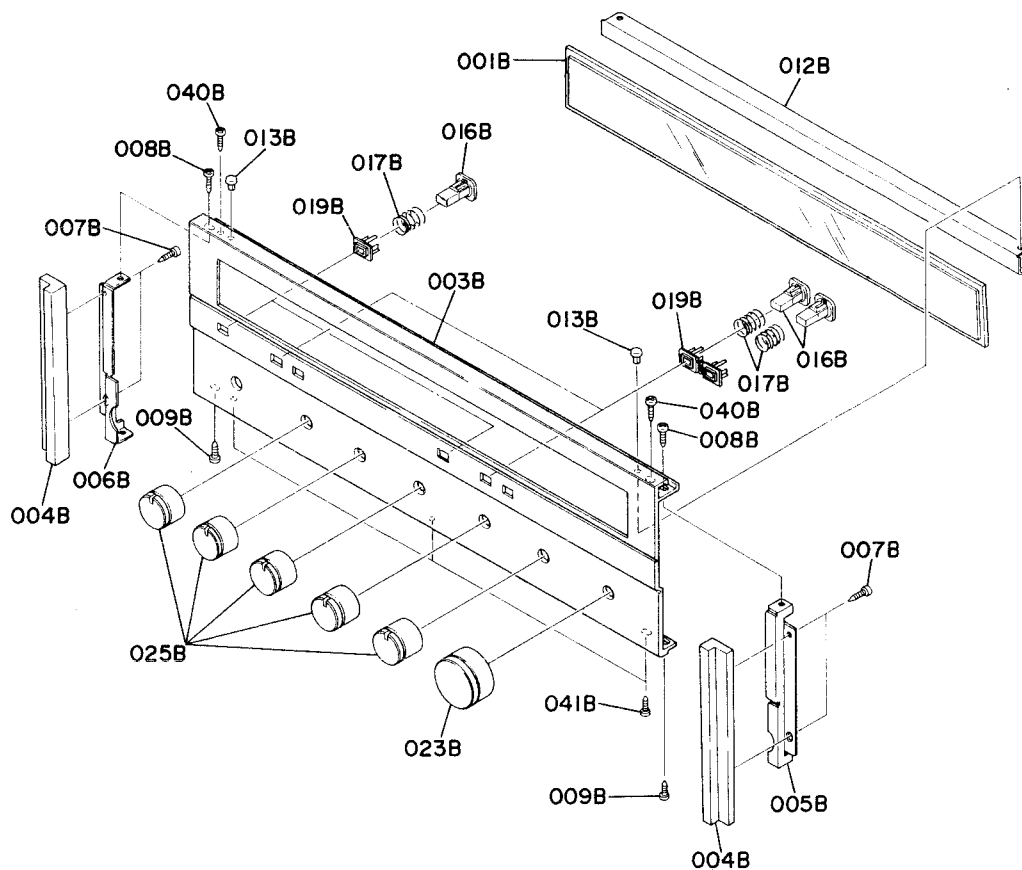


7.12 TUNING METER LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PZ50



8. EXPLODED VIEWS AND PARTS LIST

8.1 [C01-99] FRONT PANEL

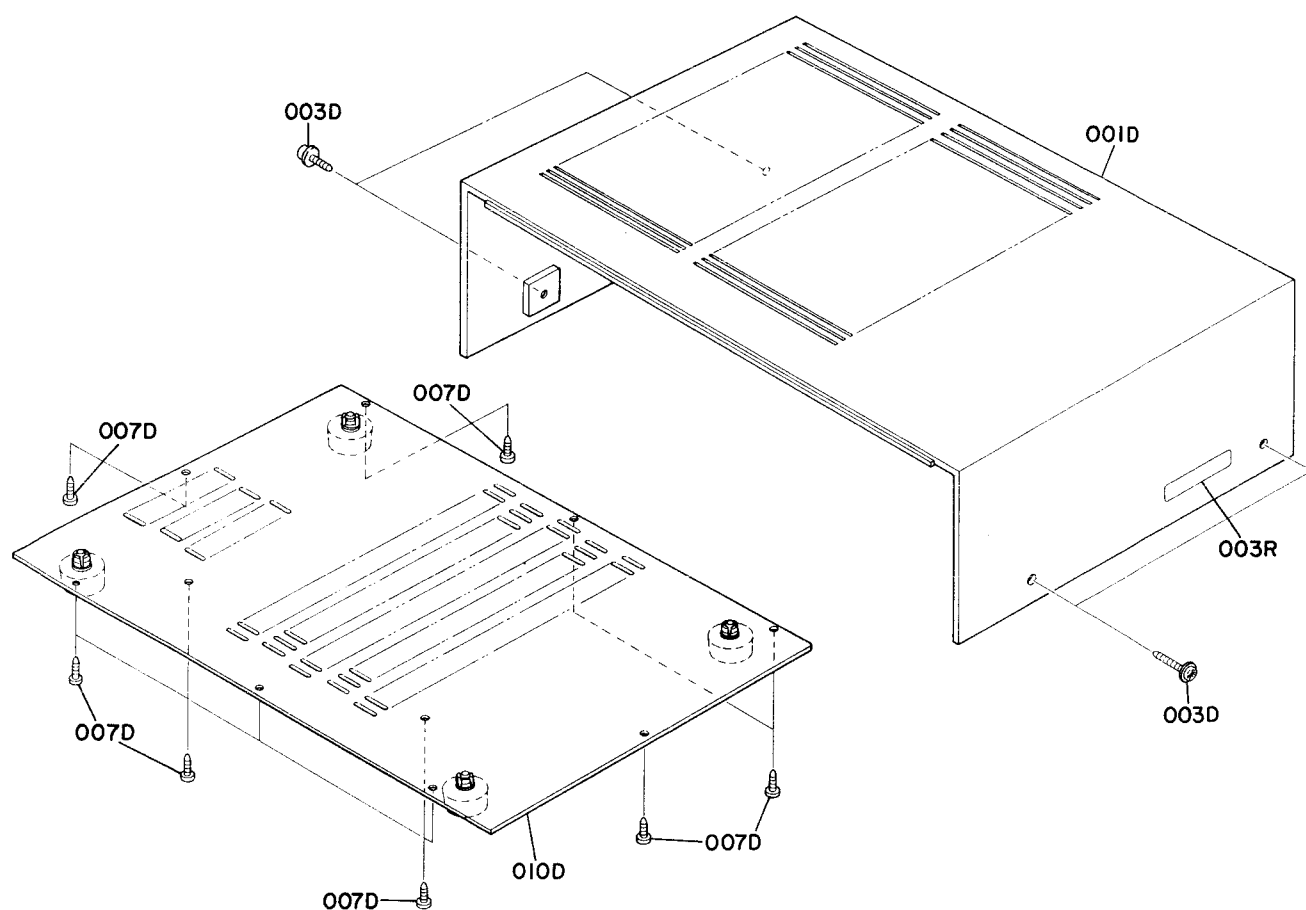


• (N): for Europe
• (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
A	1	1	100H063400	Front Panel Assembly
001B	1	1	2112158010	Window, Dial
003B	1	1	100H063013	Escutcheon,
004B	2	2	2112063052	Escutcheon, AL
005B	1	1	2112160020	Bracket (R)
006B	1	1	2112160030	Bracket (L)
007B	4	4	51280306B0	B.H. Tapped Screw B3 x 6
008B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012B	1	1	2112303010	Mask
013B	2	2	2276005050	Clamper
019B	6	6	2112259032	Bushing

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
016B	6	6	2112154010	Knob
017B	6	6	2112115010	Spring
023B	1	1	2116154020	Knob, Tuning
025B	5	5	2112154020	Knob
040B	2	2	51100308A9	B.H.M. Screw B3 x 8
041B	3	3	51280308B0	B.H. Tapped Screw B3 x 8

8.2 [C02-99] TOP COVER

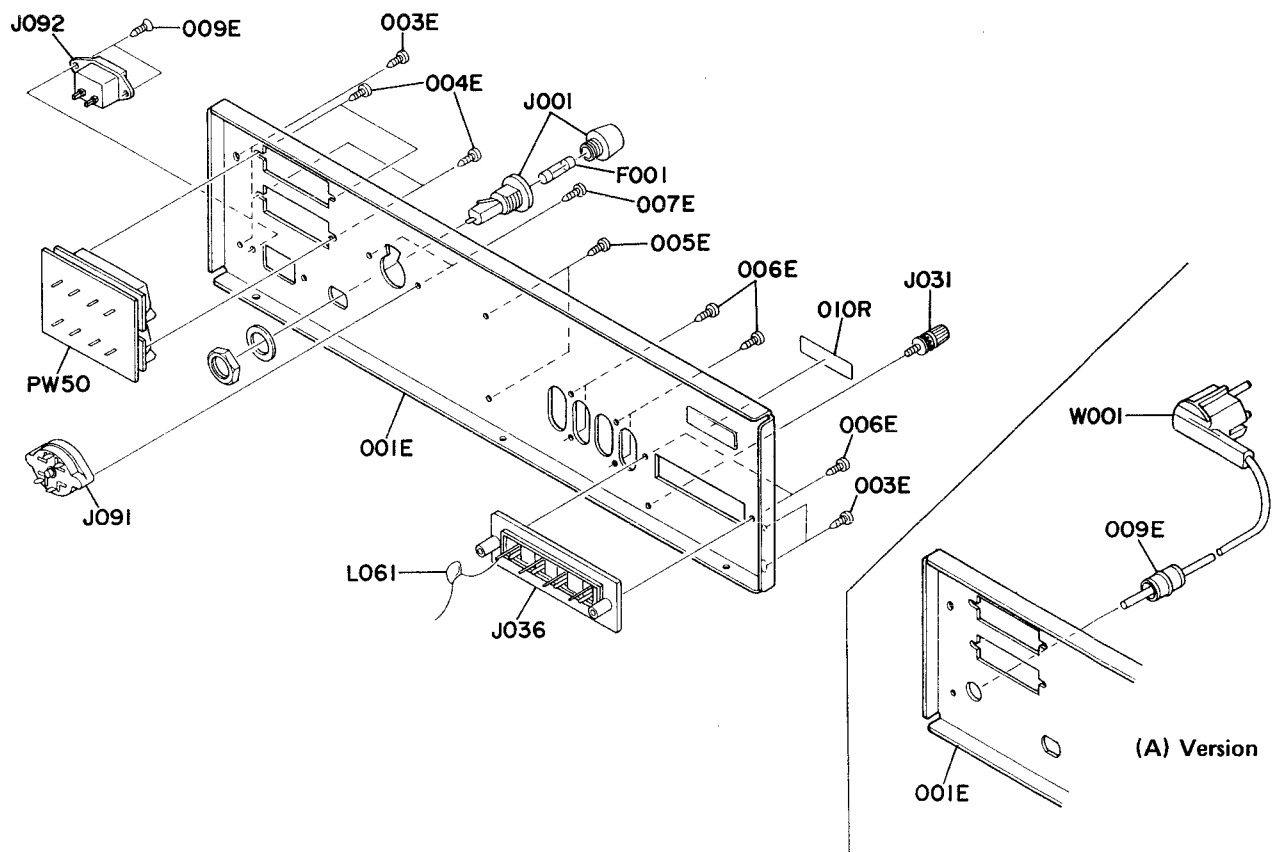


- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001D	1	1	100H064010	Case, Wood
003D	4	4	51260420U0	F. Washer Screw B4 x 20
007D	10	10	51280410B0	B.H. Tapped Screw B4 x 10
010D	1	1	2133257502	Lid, Bottom Cover

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
003R	1	1	2932861012	Label

8.3 [C03-99] REAR PANEL

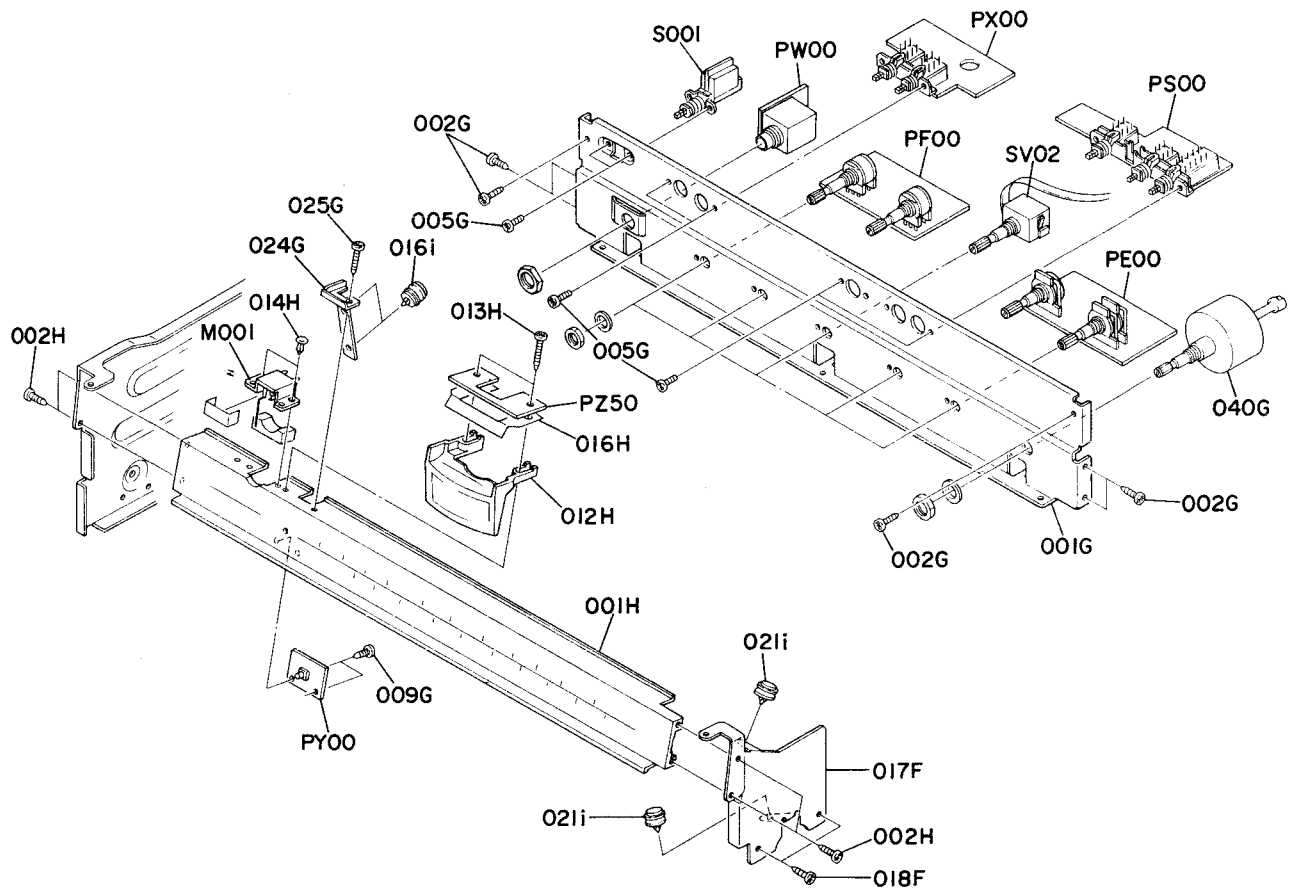


- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001E	1		100H160252	Bracket, Rear Panel
001E		1	100H160234	Bracket, Rear Panel
003E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
006E	6	6	51280308U0	B.H. Tapped Screw B3 x 8
007E	2		51280308U0	B.H. Tapped Screw B3 x 8
009E		1	1455259040	Bushing
009E	2		51420308T0	O.C.H. Tapped Screw 3 x 8
O10R	1	1	2112265010	Indicator

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
△ F001	1	1	FS10100800	Fuse 1AT 250V
△ J001	1	1	YJ08000290	Jack, Fuse Holder
J031	1	1	YL03010240	Terminal, Ground
J036	1	1	YT01040210	Terminal, Antenna
△ J091	1		BY05060013	Plug, Voltage Selector
△ J092	1		YP04000590	Plug, AC Inlet
L061	1	1	LC11540040	Choke Coil, 150μH
△ W001		1	ZC02006040	A.C. Power Cord

8.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS

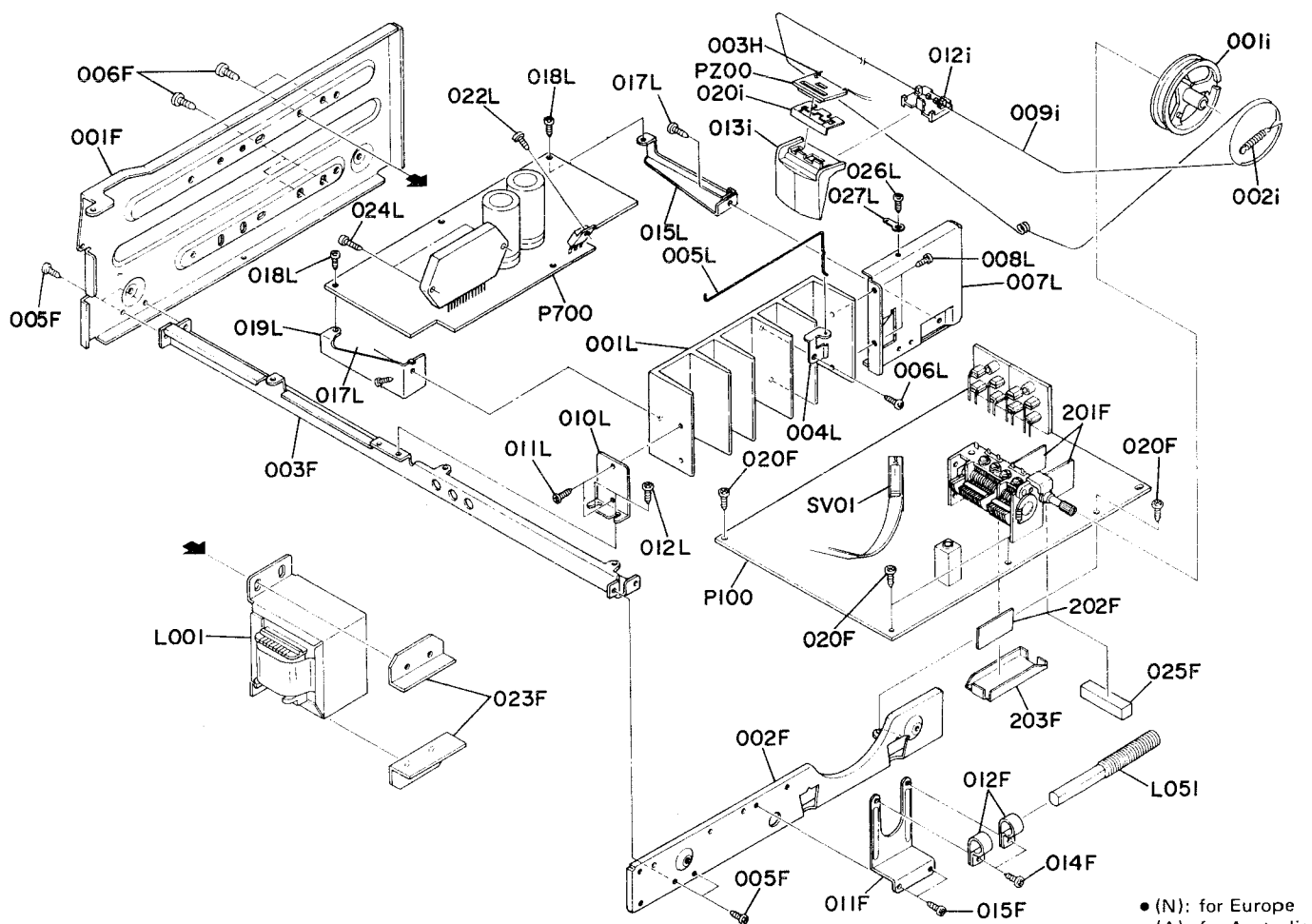


• (N): for Europe
• (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001G	1	1	100H160012	Bracket, Front Chassis
002G	6	6	51280308B0	B.H. Tapped Screw B3 x 8
005G	8	8	51100308A9	B.H.M. Screw B3 x 8
009G	2	2	51282605B0	B.H. Tapped Screw B2.6 x 5
024G	1	1	100H160032	Bracket
025G	1	1	51280308B0	B.H. Tapped Screw B3 x 8
040G	1	1	100H273012	Flywheel
017F	1	1	100H160023	Bracket
018F	2	2	51280308B0	B.H. Tapped Screw B3 x 8

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001H	1	1	100H302012	Dial
002H	4	4	51280308B0	B.H. Tapped Screw B3 x 8
012H	1	1	2112274042	Reflector
013H	2	2	51280312B0	B.H. Tapped Screw B3 x 12
014H	2	2	2276005050	Clamper
016H	1	1	2112303052	Mask
016i	2	2	2276262500	Pulley, (K)
021i	2	2	2276262500	Pulley, (K)
M001	1	1	IM11000010	D.C. Meter
SV02	1	1	SR00040040	Rotary Switch
⚠ S001	1	1	SP02010330	Push Switch, Power

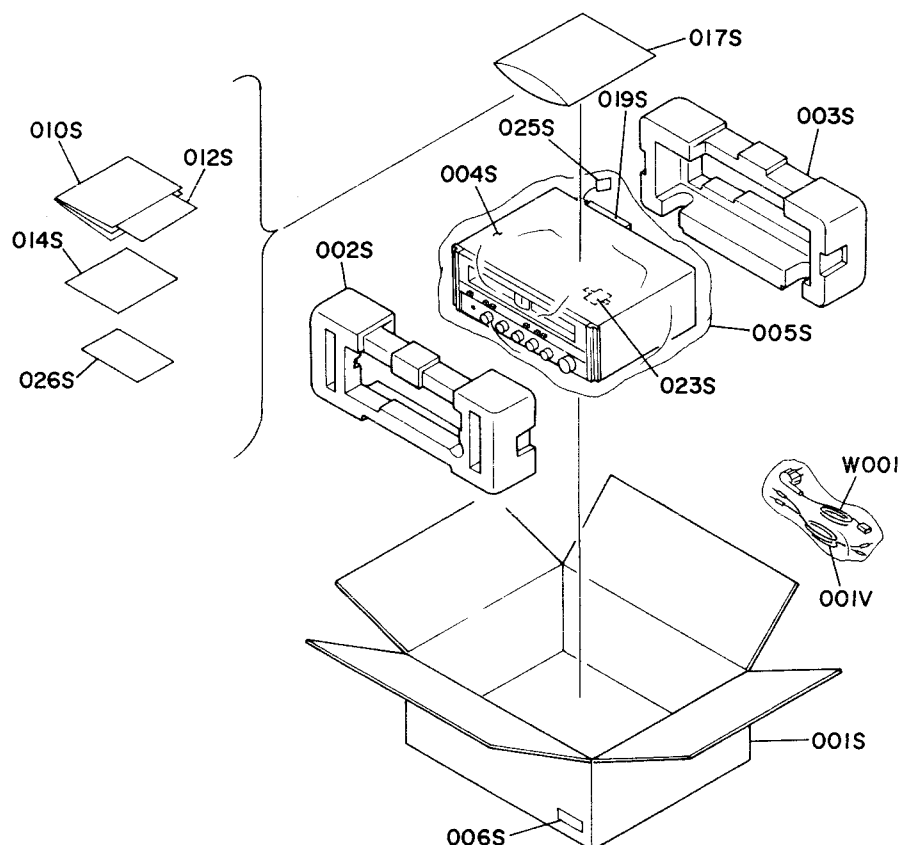
8.5 [P02-99] CHASSIS AND OTHER PARTS



REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001F	1	1	2112105014	Chassis, (L)
002F	1	1	2112105022	Chassis, (R)
003F	1	1	2112126012	Stay
005F	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006F	4	4	51280410B0	B.H. Tapped Screw B4 x 10
011F	1	1	2112271012	Holder
012F	2	2	1502271010	Holder
014F	2	2	51260310B0	B.H. Tapped Screw B3 x 10
015F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
020F	4	4	51280308B0	B.H. Tapped Screw B3 x 8
023F	2	2	2133005010	Clamper
025F	1	1	2116056012	Buffer
201F	2	2	2259109040	Shield
202F	1	1	2259109060	Shield
203F	1	1	2112109010	Shield
003H	1	1	72040805A0	String (10)
001i	1	1	2112159010	Drum
002i	1	1	71101689L0	Spring
009i	1	1	72040805A0	String (180)
012i	1	1	2112103023	Pointer
013i	1	1	2112103012	Pointer
020i	1	1	2112303033	Mask

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001L	1	1	100H267010	Heatsink
004L	1	1	2112271020	Holder
005L	1	1	2112272013	Pole
006L	1	1	51280308B0	B.H. Tapped Screw B3 x 8
007L	1	1	100H160040	Bracket
008L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010L	1	1	2133160030	Bracket
011L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
015L	1	1	2112160050	Bracket
017L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
018L	3	3	51280308B0	B.H. Tapped Screw B3 x 8
019L	1	1	100H160052	Bracket
022L	1	1	51100308B0	B.H.M. Screw B3 x 8
024L	2	2	51780316B0	B.H. Tapped Screw B3 x 16
026L	1	1	51280308B0	B.H. Tapped Screw B3 x 8
027L	1	1	62030049W0	Lug
△ L001	1		TS16619050	Power Transformer
△ L001		1	TS16619040	Power Transformer
L051	1	1	LF11000242	Antenna Coil
SV01	1	1	SS06040020	Slide Switch

8.6 [H01-99] PACKING MATERIALS



- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
001S	1	1	100H801030	Packing Case
002S	1	1	2112809013	Cushion
003S	1	1	2112809020	Cushion
004S	1	1	2918107250	Sheet
005S	1	1	9090909040	Polyethy Sheet
006S	3		9526019060	Serial NO. Card
010S	1	1	100H851310	Instructions
012S	1	1	100H851220	Instructions
006S		3	9526019030	Serial No. Card

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
014S	1		100H856010	Circuit Diagram
017S	1	1	9013025010	Polyethy Bag
019S	1	1	2864804010	Sleeve
023S	1		2731821010	Silicagel
025S	1	1	9560000043	Hang Tag
026S		1	9631000090	Guarantee Card
001V	1	1	ZA02000070	EXT. Antenna
W001	1		ZC01805020	A.C. Power Cord

8.7 ELECTRICAL PARTS

• (N): for Europe
• (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
P100	1	1	WG100H0010	P100-TUNER CIRCUIT BOARD
	1	1	ZZ100H8010	P.W. Board, Tuner P.W. Board Assembly
CA01	1	1	DK18103320	P100-CAPACITORS Ceramic 0.01 μ F +80% -20%
CA02	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA03	1	1	EA10601690	Elect 10 μ F 16V
CA04	1	1	EA10602530	Elect 10 μ F 25V
CA05	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA06	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA07	1	1	DF17103300	Film 0.01 μ F $\pm$ 20%
CA08	1	1	EA33405030	Elect 0.33 μ F 50V
CA09	1	1	EA33505090	Elect 3.3 μ F 50V
CA10	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA11	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA12	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
CA14	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA15	1	1	DF55391090	Film 390pF $\pm$ 5%
CA16	1	1	DD11100370	Ceramic 10pF $\pm$ 0.5pF
CA17	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CA18	1	1	EA22601690	Elect 22 μ F 16V
CA20	1	1	EA22601690	Elect 22 μ F 16V
CA21	1	1	DK18223320	Ceramic 0.022 μ F +80% -20%
CA22	1	1	DD11070300	Ceramic 7pF $\pm$ 0.5pF
CV01	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
CV02	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C101	1	1	DD11100300	Ceramic 10pF $\pm$ 0.5pF
C103	1	1	EA33405030	Elect 0.33 μ F 50V
C105	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C106	1	1	DK18223320	Ceramic 0.022 μ F +80% -20%
C107	1	1	DD15150300	Ceramic 15pF $\pm$ 5%
C108	1	1	DD10050370	Ceramic 5pF $\pm$ 0.25pF
C109	1	1	DD15200300	Ceramic 20pF $\pm$ 5%
C110	1	1	DD15301360	Ceramic 300pF $\pm$ 5%
C111	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C113	1	1	DD10010300	Ceramic 1pF $\pm$ 0.25pF
C114	1	1	CT11000080	Trimming 10pF $\pm$ 0.5pF
C115	1	1	DD15150340	Ceramic 15pF $\pm$ 5%
C116	1	1	DD11100300	Ceramic 10pF $\pm$ 0.5pF
C117	1	1	DD15300300	Ceramic 30pF $\pm$ 5%
C118	1	1	DD15150300	Ceramic 15pF $\pm$ 5%
C119	1	1	DK18223320	Ceramic 0.022 μ F +80% -20%
C120	1	1	CA32400100	Variable, FM-3, AM-2
C122	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C123	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C201	1	1	DK18103320	Ceramic 0.01 μ F +80% -20%
C202	1	1	DK18223320	Ceramic 0.022 μ F +80% -20%
C203	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C205	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C206	1	1	EA22505030	Elect 2.2 μ F 50V
C207	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C208	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C209	1	1	EA10505030	Elect 1 μ F 50V
C210	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C212	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
C214	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C215	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C216	1	1	EA47405030	Elect 0.47 μ F 50V
C217	1	1	EA10602530	Elect 10 μ F 25V
C218	1	1	EA10601630	Elect 10 μ F 16V
C219	1	1	DD15151370	Ceramic 150pF $\pm$ 5%
C220	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
C302	1	1	DF17473300	Film 0.047 μ F $\pm$ 20%
C303	1	1	DF55471090	Film 470pF $\pm$ 5%
C304	1	1	EA33505090	Elect 3.3 μ F 50V
C305	1	1	EA22505030	Elect 2.2 μ F 50V
C306	1	1	EQ22405010	Elect 0.22 μ F $\pm$ 20%
C307	1	1	DD15471360	Ceramic 470pF $\pm$ 5%
C308	1	1	EA47601690	Elect 47 μ F 16V
C309	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
C310	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
C311	1	1	EA10602530	Elect 10 μ F 25V
C312	1	1	EA10601690	Elect 10 μ F 16V
C313	1	1	EA10602530	Elect 10 μ F 25V
C314	1	1	EA10602530	Elect 10 μ F 25V
C315	1	1	EA47405030	Elect 0.47 μ F 50V
C316	1	1	EA47405030	Elect 0.47 μ F 50V
C317	1	1	DF16182300	Film 1800pF $\pm$ 10%
C318	1	1	DF16182300	Film 1800pF $\pm$ 10%
C319	1	1	EA47405030	Elect 0.47 μ F 50V
C320	1	1	EA47405030	Elect 0.47 μ F 50V
C321	1	1	EA10505030	Elect 1 μ F 50V
C327	1	1	EA47601690	Elect 47 μ F 16V
C328	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C329	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C330	1	1	DK18403320	Ceramic 0.04 μ F +80% -20%
C401	1	1	EA33505030	Elect 3.3 μ F 50V
C402	1	1	EA33505030	Elect 3.3 μ F 50V
C403	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
C404	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
C405	1	1	EA10701090	Elect 100 μ F 10V
C406	1	1	EA10701090	Elect 100 μ F 10V
C407	1	1	DK16221300	Ceramic 220pF $\pm$ 5%
C408	1	1	DK16221300	Ceramic 220pF $\pm$ 5%
C409	1	1	DF16123350	Film 0.012 μ F $\pm$ 10%
C410	1	1	DF16123350	Film 0.012 μ F $\pm$ 10%
C411	1	1	DF16332300	Film 0.0033 μ F $\pm$ 10%
C412	1	1	DF16332300	Film 0.0033 μ F $\pm$ 10%
C413	1	1	EA22405030	Elect 0.22 μ F 50V
C414	1	1	EA47703590	Elect 470 μ F 35V
C415	1	1	EA10505030	Elect 1 μ F 50V
C416	1	1	EA10505030	Elect 1 μ F 50V
C417	1	1	DK16221300	Ceramic 220pF $\pm$ 10%
C418	1	1	DK16221300	Ceramic 220pF $\pm$ 10%

- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
				P100-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)
RA02	1	1	GD05103140	10K Ω
RA03	1	1	GD05103140	10K Ω
RA04	1	1	GD05223140	22K Ω
RA05	1	1	GD05222140	2.2K Ω
RA06	1	1	GD05121140	120 Ω
RA07	1	1	GD05102140	1K Ω
RA08	1	1	GD05563140	56K Ω
RA09	1	1	GD05273140	27K Ω
RA10	1	1	GD05104140	100K Ω
RA11	1	1	GD05333140	33K Ω
RA12	1	1	GD05104140	100K Ω
RA13	1	1	GD05152140	1.5K Ω
RA14	1	1	GD05222140	2.2K Ω
RA15	1	1	GD05470140	47 Ω
R101	1	1	GD05105140	1M Ω
R103	1	1	GD05101140	100 Ω
R104	1	1	GD05101140	100 Ω
R105	1	1	GD05333140	33K Ω
R107	1	1	GD05105140	1M Ω
R109	1	1	GD05102140	1K Ω
R111	1	1	GD05103140	10K Ω
R112	1	1	GD05102140	1K Ω
R113	1	1	GD05103140	10K Ω
R114	1	1	GD05101140	100 Ω
R115	1	1	GG05470140	47 Ω
R116	1	1	GD05563140	56K Ω
R117	1	1	GD05104140	100K Ω
R201	1	1	GD05331140	330 Ω
R202	1	1	GD05272140	2.7K Ω
R203	1	1	GD05153140	15K Ω
R204	1	1	GD05331140	330 Ω
R205	1	1	GD05561140	560 Ω
R207	1	1	RA05030090	50K Ω (B) Trimming
R208	1	1	GD05104140	100K Ω
R209	1	1	GD05103140	10K Ω
R210	1	1	GD05222140	2.2K Ω
R211	1	1	GD05124140	120K Ω
R212	1	1	GD05682140	6.8K Ω
R213	1	1	GG05470140	47 Ω
R214	1	1	GD05103140	10K Ω
R215	1	1	GD05332140	3.3K Ω
R216	1	1	GD05331140	330 Ω
R219	1	1	GD05154140	150K Ω
R221	1	1	GD05682140	6.8K Ω
R227	1	1	GD05473140	47K Ω
R301	1	1	GD05473140	47K Ω
R302	1	1	GD05222140	2.2K Ω
R303	1	1	GD05153140	15K Ω

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
R304	1	1	RA05020160	5K Ω (B) Trimming
R305	1	1	GD05102140	1K Ω
R306	1	1	GG05101140	100 Ω
R307	1	1	GD05223140	22K Ω
R308	1	1	GD05223140	22K Ω
R309	1	1	GD05473140	47K Ω
R310	1	1	GD05473140	47K Ω
R311	1	1	GD05393140	39K Ω
R312	1	1	GD05393140	39K Ω
R313	1	1	RA05040090	500K Ω (B) Trimming
R315	1	1	GD05332140	3.3K Ω
R316	1	1	GD05332140	3.3K Ω
R317	1	1	GD05332140	3.3K Ω
R318	1	1	GD05332140	3.3K Ω
R319	1	1	GD05273140	27K Ω
R320	1	1	GD05273140	27K Ω
R321	1	1	GD05473140	47K Ω
R322	1	1	GD05184140	180K Ω
R323	1	1	GD05564140	560K Ω
R324	1	1	GD05564140	560K Ω
R325	1	1	GD05392140	3.9K Ω
R326	1	1	GD05392140	3.9K Ω
R327	1	1	GD05821140	820 Ω
R328	1	1	GD05821140	820 Ω
R329	1	1	GD05473140	47K Ω
R330	1	1	GD05473140	47K Ω
R331	1	1	GD05101140	100 Ω
R332	1	1	GD05101140	100 Ω
R333	1	1	GD05272140	2.7K Ω
R334	1	1	GD05104140	100K Ω
R335	1	1	GD05332140	3.3K Ω
R337	1	1	GD05183140	18K Ω
R401	1	1	GD05222140	2.2K Ω
R402	1	1	GD05222140	2.2K Ω
R403	1	1	GD05471140	470 Ω
R404	1	1	GD05471140	470 Ω
R405	1	1	GD05563140	56K Ω
R406	1	1	GD05563140	56K Ω
R407	1	1	GD05394140	390K Ω
R408	1	1	GD05394140	390K Ω
R409	1	1	GD05184140	180K Ω
R410	1	1	GD05184140	180K Ω
R411	1	1	GD05274140	270K Ω
R412	1	1	GD05274140	270K Ω
R413	1	1	GD05223140	22K Ω
R414	1	1	GD05223140	22K Ω
R417	1	1	GD05224140	220K Ω
R418	1	1	GD05224140	220K Ω
R419	1	1	GD05223140	22K Ω
R420	1	1	GD05223140	22K Ω
R421	1	1	GG05221140	220 Ω
R422	1	1	GD05184140	180K Ω
R423	1	1	GD05471140	470 Ω
R424	1	1	GD05471140	470 Ω

- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
P100-SEMICONDUCTORS				
QA01	1	1	HC10025060	IC μPC1178C
QA02	1	1	HV00006120	Varistor MV-203
QA03	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q101	1	1	HF200551D0	F.E.T. 2SK55(D)
Q102	1	1	HT310471C0	Transistor 2SC1047(C)
Q103	1	1	HT308291C0	Transistor 2SC829(C)
Q201	1	1	HT308291C0	Transistor 2SC829(C)
Q202	1	1	HC10028030	IC LA1231
Q204	1	1	HD20011050	Diode 1S1555
Q301	1	1	HC10024060	IC μPC1161C
Q302	1	1	HD20011050	Diode 1S1555
Q303	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q304	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q305	1	1	HD20011050	Diode 1S1555
Q401	1	1	HC10012060	IC μPC1024H
Q402	1	1	HC10012060	IC μPC1024H
P100-MISCELLANEOUS				
FA01	1	1	FF10045200	Ceramic Filter 450KHz
F201	1	1	FF11070050	Ceramic Filter 10.7MD1
F202	1	1	FF11070050	Ceramic Filter 10.7MD1
JV01	1	1	YT02040280	Terminal, RCA Phono/Aux
JV02	1	1	YT02040280	Terminal, RCA Tape In/Out
LA04	1	1	LO10010480	OSC Coil
LA05	1	1	LI10010730	I.F.T. Coil 450KHz
LA06	1	1	LI10010740	I.F.T. Coil 450KHz
L101	1	1	LA12028040	Ant. Coil
L102	1	1	LL24800030	Coil
L103	1	1	LK11800030	Coil
L104	1	1	LC17510010	Choke Coil 0.75μH
L105	1	1	LO12036010	OSC Coil
L106	1	1	LI10016010	I.F.T. Coil
L201	1	1	LI14016240	I.F.T. Coil
L203	1	1	LC11830010	Choke Coil 18μH
L301	1	1	LS10015080	M.P.X. Coil 19KHz
L302	1	1	LS10015080	M.P.X. Coil 19KHz
KS00	1	1	SR06040130	Rotary Switch, Selector

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION		
	N	A				
P700	1	1	WK100H10D0	P700-MAIN AMP./POWER SUPPLY CIRCUIT BOARD		
	1	1	ZZ100H80D0	P.W. Board Main Amp./ Power Supply		
				P.W. Board Assembly		
				P700-CAPACITORS		
C701	1	1	EA47505030	Elect	4.7 μ F	50V
C702	1	1	EA47505030	Elect	4.7 μ F	50V
C703	1	1	DD15221370	Ceramic	220pF	$\pm$ 5%
C704	1	1	DD15221370	Ceramic	220pF	$\pm$ 5%
C705	1	1	DD10005370	Ceramic	0.5pF	$\pm$ 0.25pF
C706	1	1	DD10005370	Ceramic	0.5pF	$\pm$ 0.25pF
C707	1	1	EA47605030	Elect	47 μ F	50V
C708	1	1	EA47605030	Elect	47 μ F	50V
C711	1	1	DF17104300	Film	0.1 μ F	$\pm$ 20%
C712	1	1	DF17104300	Film	0.1 μ F	$\pm$ 20%
C713	1	1	EA10703590	Elect	100 μ F	35V
C715	1	1	EA10605030	Elect	10 μ F	50V
C716	1	1	EA10605030	Elect	10 μ F	50V
C717	1	1	DD10050360	Ceramic	5pF	$\pm$ 0.25pF
C718	1	1	DD10050360	Ceramic	5pF	$\pm$ 0.25pF
△C801	1	1	EB68803520	Elect	6800 μ F	35V
△C802	1	1	EB68803520	Elect	6800 μ F	35V
C803	1	1	EA47706390	Elect	470 μ F	63V
C804	1	1	EA22605090	Elect	22 μ F	50V
C805	1	1	EA22701690	elect	220 μ F	16V
C806	1	1	EA10602590	Elect	10 μ F	25V
C807	1	1	EA10605030	Elect	10 μ F	50V
C808	1	1	DK18103320	Ceramic	0.01 μ F	+80% -20%
△G801	1	1	DF17223800	Film	0.022 μ F	$\pm$ 20%
△G802	1	1	DF17223800	Film	0.022 μ F	$\pm$ 20%
				P700-RESISTORS (All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)		
R701	1	1	GD05102140		1K Ω	
R702	1	1	GD05102140		1K Ω	
R703	1	1	GD05333140		33K Ω	
R704	1	1	GD05333140		33K Ω	
R705	1	1	GD05272140		2.7K Ω	
R706	1	1	GD05272140		2.7K Ω	
R707	1	1	GD05333140		33K Ω	
R708	1	1	GD05333140		33K Ω	
R709	1	1	GD05332140		3.3K Ω	
R710	1	1	GD05332140		3.3K Ω	
R711	1	1	GD05102140		1K Ω	
R712	1	1	GD05102140		1K Ω	
R713	1	1	GO10272020	0.27 Ω	$\pm$ 10%	2W
R714	1	1	GO10272020	0.27 Ω	$\pm$ 10%	2W
R715	1	1	RC10047120	4.7 Ω	$\pm$ 10%	$\frac{1}{4}$ W
R716	1	1	RC10047120	4.7 Ω	$\pm$ 10%	$\frac{1}{4}$ W
R719	1	1	GG05101120	100 Ω		$\frac{1}{4}$ W
R721	1	1	GD05183140	18K Ω		
R722	1	1	GD05183140	18K Ω		
R723	1	1	GD05224140	220K Ω		
R724	1	1	GD05224140	220K Ω		

- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION		
	N	A				
R801	1	1	GG05272140	2.7K Ω		
R802	1	1	GD05102140	1K Ω		
R804	1	1	GD05103140	10K Ω		
R805	1	1	GD05822140	8.2K Ω		
R806	1	1	GP05151030	150 Ω	3W	
P700-SEMICONDUCTORS						
△ Q701	1	1	HC10039030	IC	STK-459	
△ Q801	1	1	HD20009290	Diode	S2V-20	
△ Q802	1	1	HD20009290	Diode	S2V-20	
△ Q803	1	1	HD20009290	Diode	S2V-20	
△ Q804	1	1	HD20009290	Diode	S2V-20	
Q805	1	1	HT403131E0	Transistor	2SD313(E)	
Q806	1	1	HT309452A0	Transistor	2SC945(Q or R)	
Q807	1	1	HD30021090	Zener	BZ-140	
Q808	1	1	HD20005010	Diode	W06B	
P700-MISCELLANEOUS						
F701	1	1	FS10200800	Fuse	2mAT	250V
F702	1	1	FS10200800	Fuse	2mAT	250V
△ F802	1	1	FS10020800	Fuse	200mA	250V
△ F803	1	1	FS10020800	Fuse	200mA	250V
J701						
}	4	4	YJ08000270	Jack, Fuse Holder		
J704						
J803						
}	4	4	YJ08000270	Jack, Fuse Holder		
J806						
PE00-VOLUME/BALANCE CIRCUIT BOARD						
PE00	1	1	WK100H10B0	P.W. Board, Volume/Balance		
	1	1	ZZ100H80B0	P.W. Board Assembly		
PE00-CAPACITORS						
CE03	1	1	EA10405030	Elect	0.1 μ F	50V
CE04	1	1	EA10505030	Elect	1 μ F	50V
CE05	1	1	EA10602530	Elect	10 μ F	25V
PE00-RESISTORS						
RE01	1	1	RM05030860	50K Ω	(B) Variable	
RE02	1	1	RK02040080	200K Ω	(W) Variable	
RE03	1	1	GD05104140	100K Ω	$\pm$ 5%	$\frac{1}{4}$ W
RE04	1	1	GD05104140	100K Ω	$\pm$ 5%	$\frac{1}{4}$ W
RE05	1	1	GD05474140	470K Ω	$\pm$ 5%	$\frac{1}{4}$ W
RE06	1	1	GD05474140	470K Ω	$\pm$ 5%	$\frac{1}{4}$ W
RE07	1	1	GD05122140	1.2K Ω	$\pm$ 5%	$\frac{1}{4}$ W
PE00-TRANSISTORS						
QE01	1	1	HT309452A0	Transistor	2SC945(Q or R)	
QE02	1	1	HT309452A0	Transistor	2SC945(Q or R)	
QE03	1	1	HT107332A0	Transistor	2SA733(P or R)	
PE00-COIL						
LE01	1	1	LC13320050	Choke Coil	3.3 μ H	

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
PF00	1	1	WK100H10C0	PF00-TONE CONTROL CIRCUIT BOARD
	1	1	ZZ100H80C0	P.W. Board, Tone Control
				P.W. Board Assembly
PF00-CAPACITORS				
CF01	1	1	DF17562300	Film 5600pF $\pm$ 20%
CF02	1	1	DF17562300	Film 5600pF $\pm$ 20%
CF03	1	1	DF17473300	Film 0.047 μ F $\pm$ 20%
CF04	1	1	DF17473300	Film 0.047 μ F $\pm$ 20%
CF05	1	1	DF17152300	Film 1500pF $\pm$ 20%
CF06	1	1	DF17152300	Film 1500pF $\pm$ 20%
CF07	1	1	DF17153300	Film 0.015 μ F $\pm$ 20%
CF08	1	1	DF17153300	Film 0.015 μ F $\pm$ 20%
PF00-RESISTORS				
(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)				
RF03	1	1	GD05183140	18K Ω
RF04	1	1	GD05183140	18K Ω
RF07	1	1	GD05103140	10K Ω
RF08	1	1	GD05103140	10K Ω
RF09	1	1	GD05183140	18K Ω
RF10	1	1	GD05183140	18K Ω
RF11	1	1	GD05332140	3.3K Ω
RF12	1	1	GD05332140	3.3K Ω
RF13	1	1	GD05222140	2.2K Ω
RF14	1	1	GD05222140	2.2K Ω
RF15	1	1	RM01040330	100K Ω (C) Variable
RF16	1	1	RM01040330	100K Ω (C) Variable
PS00-PUSH SWITCH CIRCUIT BOARD				
PS00	1	1	WK100H10A0	P.W. Board, Push Switch
	1	1	ZZ100H80A0	P.W. Board Assembly
PS00-CAPACITORS				
CS01	1	1	DF17823300	Film 0.082 μ F $\pm$ 20%
CS02	1	1	DF17823300	Film 0.082 μ F $\pm$ 20%
CS03	1	1	DF16182300	Film 0.0018 μ F $\pm$ 20%
CS04	1	1	DF16182300	Film 0.0018 μ F $\pm$ 20%
PS00-RESISTORS				
(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)				
RS01	1	1	GD05332140	3.3K Ω
RS02	1	1	GD05332140	3.3K Ω
RS03	1	1	GD05332140	3.3K Ω
RS04	1	1	GD05332140	3.3K Ω
RS05	1	1	GD05392140	3.9K Ω
RS06	1	1	GD05392140	3.9K Ω
RS07	1	1	GD05562140	5.6K Ω
RS08	1	1	GD05562140	5.6K Ω
PS00-MISCELLANEOUS				
SS01	1	1	SP04030160	Push Switch
WS01	1	1	YU12110010	Jumper Lead
WS02	1	1	YU05160210	Jumper Lead

• (N): for Europe
• (A): for Australia

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
PW00	1	1	WK100H10G0	PW00-HEADPHONE JACK CIRCUIT BOARD
	1	1	ZZ100H80G0	P.W. Board, Headphone Jack P.W. Board Assembly
JW01	1	1	YJ01001340	Jack, Headphone
PW50	1	1	WK100H10F0	PW50-SPK, TERMINAL CIRCUIT BOARD
	1	1	ZZ100H80F0	P.W. Board, SPK. Terminal P.W. Board Assembly
JW51	1	1	YT03040180	Terminal
JW52	1	1	YT03040180	Terminal
PX00	1	1	WK100H10E0	PX00-SPEAKER SWITCH CIRCUIT BOARD
	1	1	ZZ100H80E0	P.W. Board, Speaker Switch P.W. Board Assembly
RX01	1	1	RC10331120	PX00-RESISTORS
RX02	1	1	RC10331120	330Ω ±5% ¼W
SX01	1	1	SP02020420	PX00-SWITCH
				Push Switch, Speaker
PY00	1	1	WK100H10H0	PY00-STEREO LED CIRCUIT BOARD
	1	1	ZZ100H80H0	P.W. Board, Stereo LED P.W. Board Assembly
QY01	1	1	HI10009020	L.E.D. LN26RP
RY01	1	1	GD05222140	Resistor 2.2KΩ ±5% ¼W

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	N	A		
PZ00	1	1	WK100H10J0	PZ00-DIAL POINTER LAMP CIRCUIT BOARD
	1	1	ZZ100H80J0	P.W. Board, Dial Pointer Lamp P.W. Board Assembly
VZ01	1	1	IN10080530	Lamp 55mA 8V
PZ50	1	1	WK100H10I0	PZ50-TUNING METER LAMP CIRCUIT BOARD
	1	1	ZZ100H80I0	P.W. Board, Tuning Meter Lamp P.W. Board Assembly
VZ51	1	1	IN10080530	Lamp 55mA 8V

(W01-99)

Assembly and Wiring

(T01-99)

Adjustment

(X01-00)

Correction

9. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL	27 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL	18 W
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	0.3%
I.M. DISTORTION AT RATED POWER OUTPUT	
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	0.3%
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL	22 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL	15 W
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	0.1%
I.M. DISTORTION AT RATED POWER OUTPUT	
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	0.1%
POWER BANDWIDTH	10 Hz ~ 40 kHz
	(40 Hz) (1 kHz) (12.5 kHz)
DAMPING FACTOR 8 OHM	44 45 42

Frequency Response	
Phono (RIAA)	±1.0 dB
Aux (±1 dB)	18 Hz ~ 30 kHz
Signal-to-Noise Ratio	
Phono	70 dB
Aux	80 dB
Input Terminals	
Phono: Input Impedance	47 k ohms
Input Capacitance	100 pF
Input Sensitivity	2.7 mV
Overload Margin	30 dB
Aux: Input Impedance	20 k ohms
Input Sensitivity	160 mV
Phono Equivalent Input Noise	1.4 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise)	100 dB
Channel Balance (0 to -40 dB/40 Hz ~ 16 kHz)	
Phono	2.5 dB
Aux	2.0 dB
Interchannel Crosstalk	
Phono 1 kHz	35 dB
Aux 1 kHz	43 dB
Tape 1 kHz	50 dB
Intersource Crosstalk (Worst Point)	
1 kHz	44 dB
Output Voltage, 1 kHz	
Tape Out	500 mV
Output Impedance, 1 kHz	
Tape Out	500 ohms
Headphone Jack Load Impedance	8 ohms

FM TUNER SECTION

Frequency Range	87.5 ~ 108 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz	
Mono, S/N 26 dB	1.7 μV
Stereo, S/N 46 dB	45 μV
Alternate Channel Selectivity, 98 MHz±300 kHz	50 dB
Image Response Rejection, 98 MHz	54 dB
IF Rejection, 98 MHz	100 dB
Spurious Response Rejection, 98 MHz	90 dB
AM Suppression, 98 MHz	25 dB

Signal-to-Noise Ratio, 98 MHz	
Unweighted: Mono	62 dB
Stereo	55 dB
Weighted: Mono	62 dB
Stereo	55 dB
Pilot Signal & Subcarrier Rejection	
19 kHz	58 dB
38 kHz	58 dB
Total Harmonic Distortion, 98 MHz	
Mono	0.2%
Stereo	0.4%
Frequency Response	
30 Hz ~ 15 kHz	+0.5 dB, -2 dB
Separation	
Stereo	45 dB
Channel Balance	0.5 dB
Output Voltage, 1 kHz	600 mV
Output Impedance, 1 kHz	4.4 k ohms
Acceptable Load Impedance, 1 kHz	47 k ohms
Antenna Terminals	
Balanced	300 ohms
Unbalanced	75 ohms

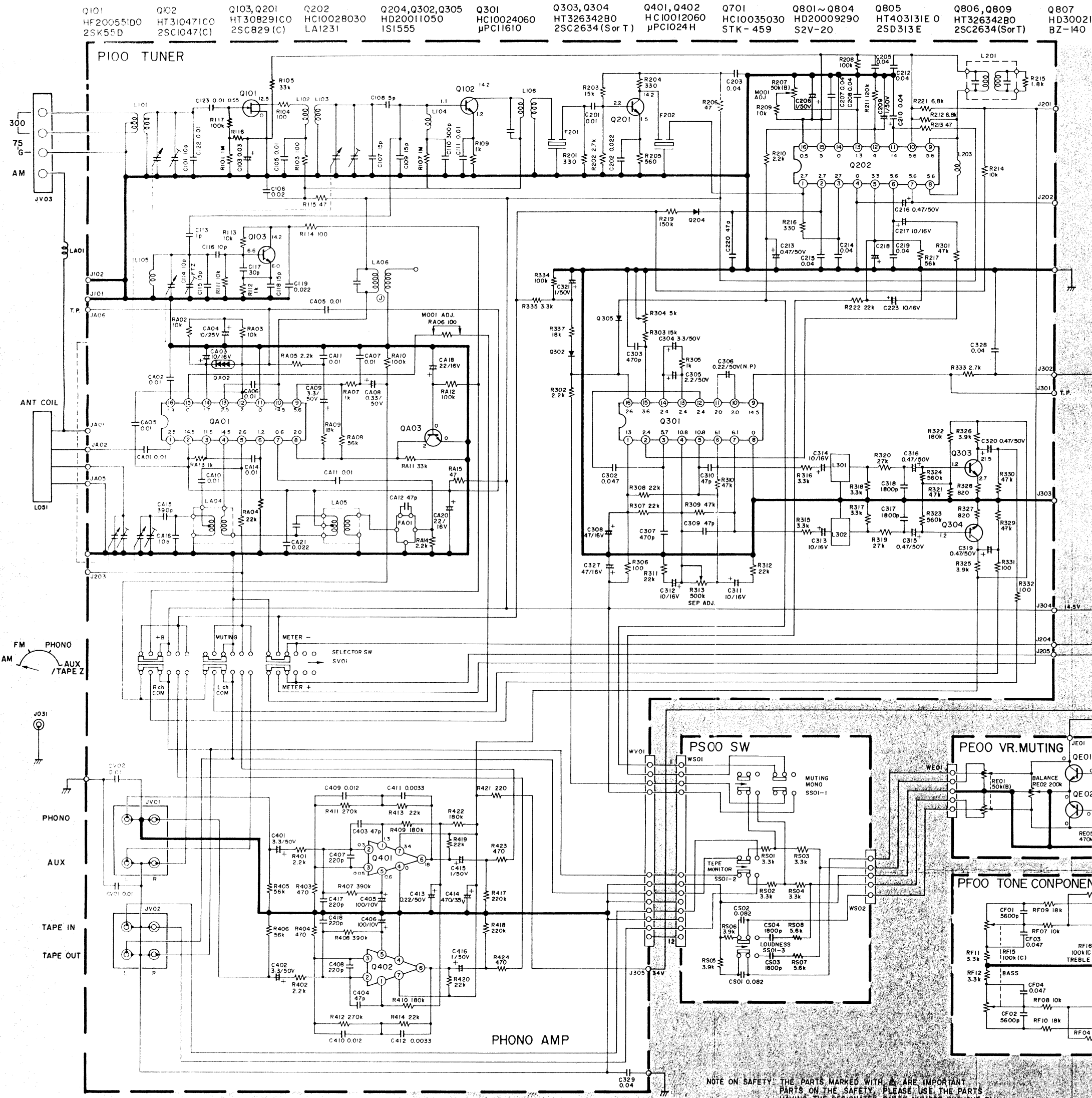
MW TUNER SECTION

Frequency Range	515 ~ 1650 k Hz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz)	30 μ V
Selectivity, 1 kHz $\pm$ 9 kHz	20 dB
Image Rejection, 1 MHz	40 dB
IF Rejection, 1 MHz	40 dB
Spurious Response Rejection, 1 MHz	38 dB
Signal-to-Noise Ratio, 1 MHz	43 dB
Frequency Response, 1 MHz $\pm$ 3 dB	40 Hz ~ 2.2 kHz
Total Harmonic Distortion, 1 MHz	1%

GENERAL

Power Requirements	220 V AC, 50 Hz
(N version is featuring an external voltage selector for use on 110 V.	
Other versions can be converted by a qualified technician to operate on 240 V.)	
Power Consumption at Rated Output, Both Channels Operating	90 W
Idling Power	20 W
Semiconductor Complement	
Integrated Circuits	7
Transistors	8
Diodes	13
Field Effect Transistors	1
Dimensions	
Panel Width	18-3/8" (466 mm)
Panel Height	5-1/2" (140 mm)
Depth	12-3/4" (323 mm)
Weight	
Unit alone	13.2 lbs (6 kg)
Packed for shipment	16.5 lbs (7.5 kg)

SCHEMATIC DIAGRAM



NOTE ON SAFETY: THE PARTS MARKED WITH * ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.

